



# RB551V-30

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

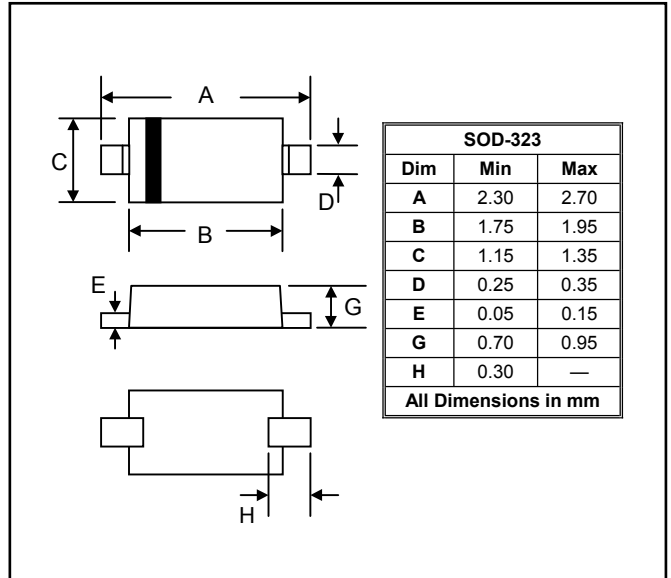
Reverse Voltage - 30 Volts    Forward Current - 500 mAmpere

### FEATURES

- Low Turn-on Voltage
- Fast Switching
- Ultra-small surface mount package.
- PN Junction Guard Ring for Transient and ESD Protection

### MECHANICAL DATA

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)



### Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	30	V
Reverse Voltage	$V_R$	20	V
Mean Rectifying Current	$I_O$	0.5	A
Peak Forward Surge Current (60 Hz for 1 Cyc.)	$I_{FSM}$	2	A
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 150	$^\circ\text{C}$

### Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$ at $I_F = 500\text{ mA}$	$V_F$	-	0.36	V
	$V_F$	-	0.47	V
Reverse Current at $V_R = 20\text{ V}$	$I_R$	-	100	$\mu\text{A}$
Capacitance Between Terminals at $V_R = 10\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	20	-	pF



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## RATINGS AND CHARACTERISTIC CURVES

